

## CLAIMS

1. (Currently Amended) A solidified molten homogeneous mixture; the molten mixture containing, granular, free-flowing, agrochemical composition containing a salt of phosphorous acid and at least one other NPK nutrient, that is homogeneous in the chemical composition and uniform in particle size, that is water-soluble, and that comprises metal microelements, and a base selected from potassium carbonate and potassium hydroxide in an amount to at least partially neutralize said acid, at a temperature of from 60°C to 130°C; cooled and broken to water-soluble, granular, free-flowing agrochemical composition of uniform particle size containing from 0% to 1% water.
2. (Currently Amended) An agrochemical composition of A solidified mixture according to claim 1, wherein at least one of the said nutrient is chosen selected from the group consisting of monoammonium phosphate, monopotassium phosphate, dipotassium phosphate, potassium chloride, ammonium chloride, potassium sulfate, ammonium sulfate, and urea.
3. (Canceled)
4. (Currently Amended) A solidified mixture according to claim 1 ~~An agrochemical composition of any one of claims 1 to 3, wherein at least one of the said metal microelements are chosen selected~~ from the group consisting of zinc, copper, iron, manganese, molybdenum, and boron.

5. (Currently Amended) A solidified mixture according to claim 1~~An agrochemical composition of any one of claims 1 to 4~~, wherein ~~the said~~ metal microelements are present as any commercially available salt.
6. (Currently Amended) A solidified mixture according to claim 1~~An agrochemical composition of any one of claims 1 to 4~~, wherein ~~the said~~ metal microelements are present in the form ~~selected~~~~chosen~~ from the group consisting of chloride, sulfate, molybdate, ethylenediaminetetraacetate, and borate~~ic acid~~.
7. (Canceled)
8. (Currently Amended) A solidified mixture according to claim 1~~An agrochemical composition of any one of claims 1 to 7~~, additionally containing one or more additives that further enhance its fertilizing and pesticidal properties.
9. (Currently Amended) ~~An agrochemical composition of~~ A solidified mixture according to claim 8, wherein the additive is chosen from the group consisting of stimulant, pesticide, and surfactant.
10. (Currently Amended) ~~An agrochemical composition of~~ A solidified mixture according to claim 8, wherein the additive is humic acid.
11. (Canceled)
12. (Currently Amended) A solidified mixture according to claim 1~~An agrochemical composition of any one of claims 1 to 11~~, additionally containing

one or more additives that modify functional or aesthetic properties of the particles.

13. (Currently Amended) ~~An agrochemical composition of~~ A solidified mixture according to claim 12, wherein the additive is chosen from the group consisting of surfactant and dye.
14. (Currently Amended) A solidified mixture according to claim 1 ~~An agrochemical composition according to any one of claims 1 to 13, wherein the said NPK nutrient, other than a salt of phosphorous acid, comprises monoammonium phosphate or monopotassium phosphate.~~
15. (Currently Amended) A solidified mixture of claim 1 ~~An agrochemical composition of any one of any one of claims 1 to 14, which contains from 10 to 95 wt% salts of phosphorous acid.~~
16. (Currently Amended) A solidified mixture according to claim 15 ~~An agrochemical composition of any one of claims 1 to 15, which contains from 5 to 90 wt% of NPK nutrients; other than salts of phosphorous acid, and from 0.005 to 2 wt% metal microelements.~~
17. (Currently Amended) A solidified mixture according to claim 1 ~~An agrochemical composition of any one of claims 1 to 16, which is completely dissolved when mixed with water at ambient temperatures, in the ratio of 10 parts of the solid to 90 parts of water.~~
18. (Currently Amended) A solidified mixture according to claim 17 ~~An agrochemical composition of any one of claims 1 to 16, which is completely~~

dissolved when mixed with water at ambient temperature, in the ratio 20 parts of the solid to 80 parts of water.

19. (Currently Amended) A solidified mixture according to claim 1~~An agrochemical composition of any one of claims 1 to 18~~, which provides a solution having pH 3.4-7.0, when dissolved 1 part in 100 parts of water.
20. (Canceled)
21. (Currently Amended) A solidified mixture according to claim 1~~An agrochemical composition of any one of claims 1 to 20~~, which contains from 0.1 to 0.4 wt% water.
22. (Canceled)
23. (Currently Amended) A solidified mixture according to claim 1~~An agrochemical composition of any one of claims 1 to 22~~, which contains from 15 to 35 wt% salts of phosphorous acid.
24. (Currently Amended) A solidified mixture according to claim 24~~An agrochemical composition of any one of claims 1 to 23~~, which contains from 65 to 85 wt% of NPK nutrients; other than salts of phosphorous acid, and from 0.05 to 0.5 wt% metal microelements.
25. (Canceled)
26. (Currently Amended) A solidified mixture according to claim 1~~An agrochemical composition of any one of claims 1 to 25~~, which provides a solution having pH 3.8-5.3, when dissolved 1 part in 100 parts of water.

27. (Canceled)
28. (Withdrawn) A process for the manufacture of an agrochemical composition, said process comprising i) blending and heating at a temperature from 60.degree. C. to 130.degree. C. a mixture containing phosphorous acid, at least one other NPK nutrient, metal microelements and other additives; ii) introducing a base into the mixture, thus at least partially neutralizing phosphorous acid, wherein the amount of the base is sufficient to provide that the pH of a 1% water solution of the final composition will be between 3.4 and 7.0; iii) homogenizing the mixture, while optionally lowering the pressure above the mixture; iv) and cooling the mixture, while obtaining a homogeneous, granular, free flowing and not caking material, containing from 0% to 1% water.
29. (Withdrawn) A process according to claim 28, wherein the molten mixture is neutralized by a base of formula MR, wherein M is selected from potassium and ammonium, and R is selected from carbonate and hydroxide.
30. (Withdrawn) A process according to claim 28, wherein the molten mixture is neutralized by potassium carbonate or potassium hydroxide.
31. (Withdrawn) A process according to claim 28, wherein the components may be added to the mixture in any order.
32. (Withdrawn) A process according to claim 28, wherein the components may be preheated in any order before forming the complete mixture.

33. (Withdrawn) A process according to claim 28, wherein the complete mixture has a temperature between  $60^{\circ}\text{C}$  and  $130^{\circ}\text{C}$ .
34. (Withdrawn) A process according to claim 28, said process further comprising a molten mixture.
35. (Withdrawn) A process according to claim 28, wherein the complete mixture is heated to a temperature between  $61^{\circ}\text{C}$ . and  $100^{\circ}\text{C}$ .
36. (Withdrawn) A process according to claim 28, said process yielding a granular composition homogeneous in chemical composition and uniform in particle-size.
37. (Withdrawn) A process according to claim 28, said process yielding a granular, free flowing composition that contains from 0.1% to 0.4% water.
38. (Withdrawn) A process according to claim 28, said process yielding a granular composition having hygroscopicity, as expressed by the critical relative humidity, from 50% to 65%.
39. (Withdrawn) A process according to claim 28, wherein the pressure is lowered below 70 mm Hg.

40. (New) A solid, granular, free-flowing, water-soluble, agrochemical composition containing a potassium salt of phosphorous acid, at least one other NPK nutrient, and metal microelements, being homogeneous in the chemical composition and uniform in particle size;

wherein said composition is a solidified molten mixture of phosphorous acid, at least one other NPK nutrient, metal microelements, and a base selected from potassium carbonate and potassium hydroxide at least partially neutralizing said acid at a temperature of from 60°C to 130°C;

and wherein said composition contains from 0% to 1% water.